

**Work Order ID 67588**

Page 1

Monday, March 28, 2011 11:42:13 AM

Item ID: D3564-5

Accept



Setup Start



Revision ID:

Stop



Item Name: Wearshoe

Start Date: 3/28/2011 Start Qty: 12.00



Cust Item ID:

Required Date: 3/31/2011 Req'd Qty: 12.00



Customer:

Reference:

Approvals:

Process Plan:

*Handwritten initials*

Date:

*4-03-28*

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3564	Rev D								
100		0.00							
	FLOW WATER JET								
Waterjet	Memo	0.00							
FLOW CNC Waterjet	1-Cut as per Dwg D3564 <input type="checkbox"/> Dwg Rev: <i>D</i> <input type="checkbox"/> Prog Rev: <i>D</i> <input type="checkbox"/> 2-								
<i>304 . 062</i>	Debur if necessary								<i>(12)</i>
110		0.00							
	QC2- Inspect parts off machine FAI/FAIB								
QC	Memo	0.00							
Quality Control									<i>1314-4</i>
120		0.00							
	QC8- Inspect parts - second check								
QC	Memo	0.00							
Quality Control									<i>Sub 64105</i>

*(12)*

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



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**Work Order ID 67588**

Monday, March 28, 2011 11:42:13 AM

Page 3

Item ID: D3564-5

Accept

Revision ID:

Item Name: Wearshoe

Start Date: 3/28/2011 Start Qty: 12.00

Required Date: 3/31/2011 Req'd Qty: 12.00

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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160 QC3- Inspect Part Finish 0.00



QC Memo 0.00

Quality Control

12 0 11/4/7 11-04-7

170 Identify as per dwg & Stock Location: FP-19 0.00

Packaging Memo 0.00

Packaging

12 BL 11-4-7

180 QC21- Final Inspection - Work Order Release 0.00



QC Memo 0.00

Quality Control

11/4/7 11-04-7

pl 11-04-7  
(12)

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**NOTE:** Date & initial all entries

# Picklist Print

Monday, March 28, 2011 11:42:19 AM

Page 1

Work Order ID: 67588

Parent Item: D3564-5

Parent Item Name: Wearshoe





Start Date: 3/28/2011

Required Date: 3/31/2011

Start Qty: 12.00

Required Qty: 12.00

Comments: IPP Rev:A New Issue 07-03-08 ec  
 IPP Rev:B As per Rev C 07-07-09 JLM  
 IPP Rev:C As per Rev D 07-09-09 JLM Verified By:EC  
 IPP Rev D added DT# 08.04.21 DD Verified by EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S16GA 		Purchased	No			100	sf	4.0000	1.5	18.94737			
304/316 Sheet .063													

1B1-4-4

Location	Loc Qty	Loc Code
MAT020	4	
116623	4	
117275		

117275

12

W/O:		WORK ORDER CHANGES						
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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**NOTE:** Date & initial all entries



<b>DART AEROSPACE LTD</b>		<b>Work Order:</b>	67588
<b>Description:</b> Wearshoe		<b>Part Number:</b>	D3564-5
<b>Inspection Dwg:</b> D3564 <b>Rev:</b> D		<b>Page 1 of 1</b>	

### FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article      ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
43.50	+/-0.030	43.50	✓		T HB01	
6.75	+/-0.030	6.75	✓		T	
10.00	+/-0.030	10.00	✓		T	
20.00	+/-0.030	20.00	✓		T	
30.00	+/-0.030	3.00	✗		T	
2.50	+/-0.030	2.50	✓		V HB02	
3.227	+/-0.010	3.228	✓		V	
38.500	+/-0.010	38.500	✓		T	
5.500	+/-0.010	5.500	✓		T	
2.50	+/-0.030	2.50	✓		V	
2.432	+/-0.010	2.439	✗		V	
0.300 x 0.300	+/-0.010	301 x 300	✓		V	
Ø0.188	+0.005/-0.001	.189	✓		V	
R0.375	+/-0.010	.375	✓		R.G.	
0.063	+/-0.010	.059	✗		V	

<b>Measured by:</b> B	<b>Audited by:</b> D	<b>Prototype Approval:</b>	N/A
<b>Date:</b> 11-4-4	<b>Date:</b> 11/04/05	<b>Date:</b>	N/A

Rev	Date	Change	Revised by	Approved
A	08.01.16	New Issue	KJ/EC/DD	D

W/O:		WORK ORDER CHANGES						
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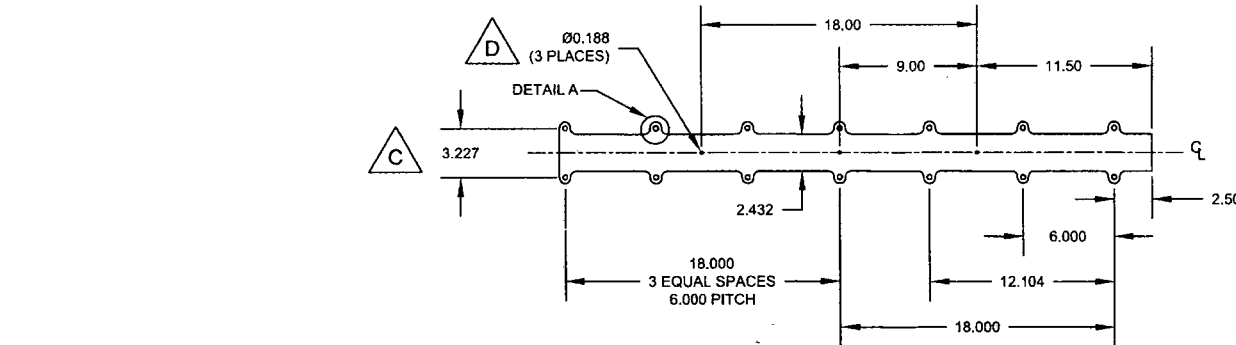
NOTE: Date & initial all entries

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. Q-7588

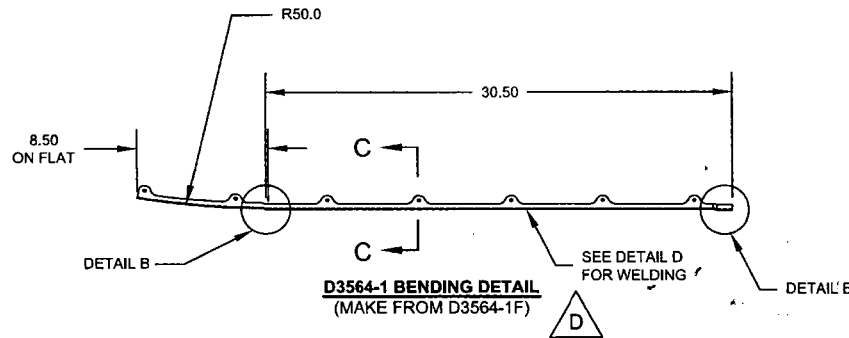
*PH 11-03-28*

RELEASED  
07.09.04 *#*

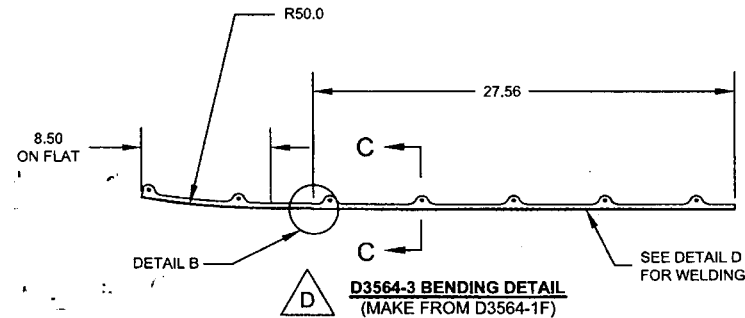
**D3564-1F FLAT PATTERN**



**D3564-1 BENDING DETAIL**  
(MAKE FROM D3564-1F)



**D3564-3 BENDING DETAIL**  
(MAKE FROM D3564-1F)



**D3564-1/-3/-5/-7/-9/-11/-13/-15 WEARPLATE NOTES:**

- 1) MATERIAL: AISI 304/316 SS SHEET PER AMS 5513 OR AMS 5524, 16 GAUGE (0.063 THICK)  
(REF DART MATERIAL SPEC M304S16GA)
- 2) FINISH: POWDER COAT GREY SANDEX (REF 4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.015 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: SEE TABLE IN ZONE A3
- 8) WELD PER DART QSI 004
- 9) SEE PG 3 FOR SECTIONS AND DETAILS
- 10) PARTS ARE SYMMETRIC ABOUT  $\phi$

**WEIGHTS:**

D3564-1	1.85 lbs
D3564-3	1.85 lbs
D3564-5	1.93 lbs
D3564-7	1.26 lbs
D3564-9	1.85 lbs
D3564-11	1.85 lbs
D3564-13	0.38 lbs
D3564-15	0.80 lbs

D	UPDATE DRAWING TEMPLATE: CHANGE ALL (TYP X PLS) TO (X PLACES); PG1 A8; UPDATE NOTES; PG1 A8, PG3 B5, C5; ADD D3564-15; PG1 B8, B3: D3564-1/-3 WAS ONE FIGURE; PG2 A7, A3: D3564-9/-11 WAS ONE FIGURE; PG2 A7, A3: D3564-9/-11 WAS ON PG1; PG3 B8, C8: D3564-13 WAS ON PG2; PG3 D2: WELDING DETAIL WAS ON PG1 PG3 A5, 7, B2: RELOCATE DETAILS AND SECTION; PG3 A5, 7, B2: INCREASE DETAIL AND SECTION SIZE	CB	07.08.21
C	MOVE TAB OUTBOARD, DETAIL A	PH	07.04.17
B	ADD AMS 5513 AND AMS 5524	PH	07.03.20
A	NEW ISSUE	PH	06.12.18
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>PH</i>		
DRAWN	<i>CB</i>		
CHECKED	<i>PH</i>		
MFG. APPR.	<i>PH</i>		
APPROVED	<i>PH</i>		
DE APPR.	<i>PH</i>		
DATE	07.08.21		
<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. D3564		REV. D	SHEET 1 OF 3
TITLE WEARSHOE		SCALE	1:8
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

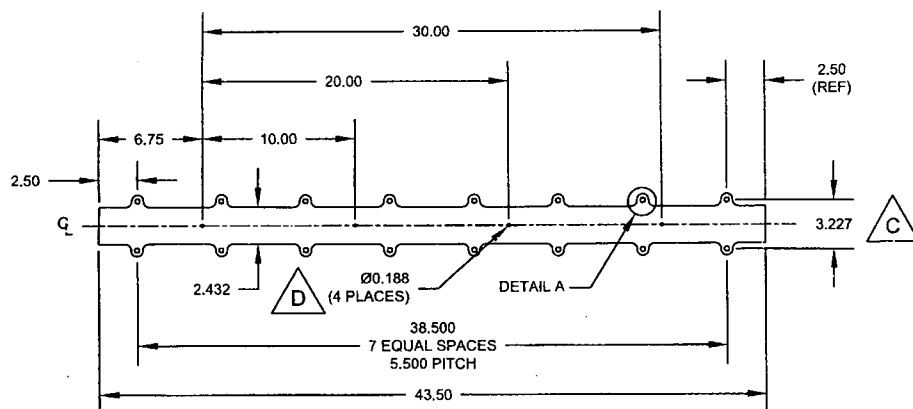
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

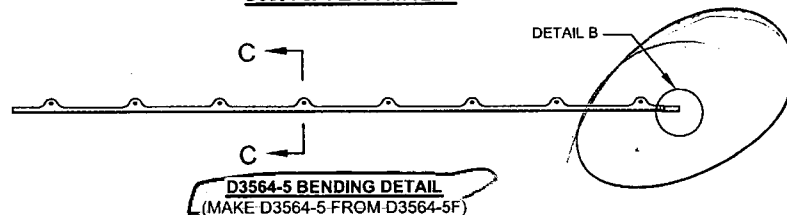
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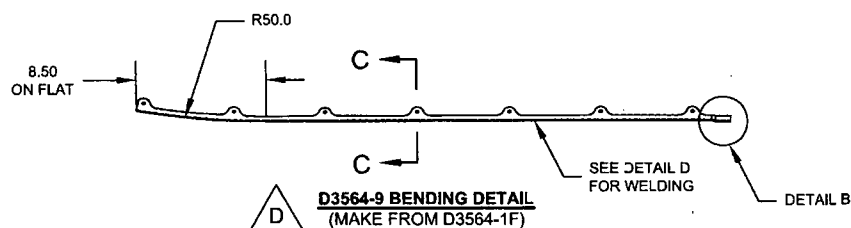
W 6-75 58



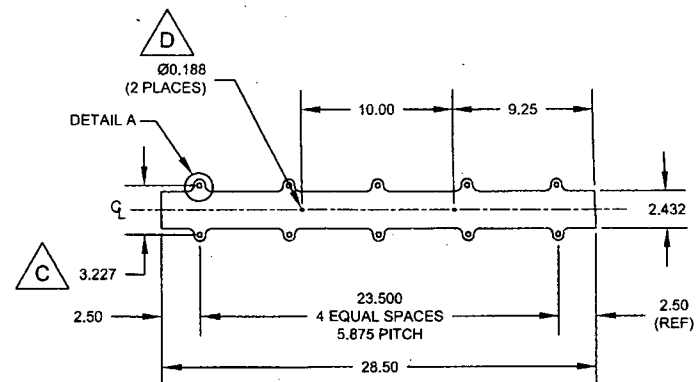
**D3564-5F FLAT PATTERN**



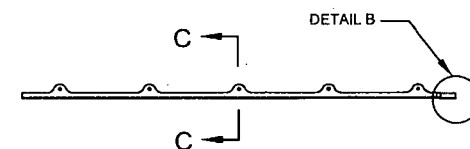
**D3564-5 BENDING DETAIL**  
(MAKE D3564-5 FROM D3564-5F)



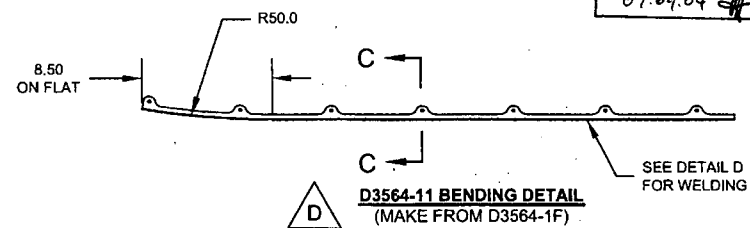
**D3564-9 BENDING DETAIL**  
(MAKE FROM D3564-1F)



**D3564-7F FLAT PATTERN**



**D3564-7 BENDING DETAIL**  
(MAKE D3564-7 FROM D3564-7F)



**D3564-11 BENDING DETAIL**  
(MAKE FROM D3564-1F)

RELEASED

07.09.04

DESIGN	PH	<b>DART AEROSPACE LTD</b>	
DRAWN	CB	HAWKESBURY, ONTARIO, CANADA	
CHECKED	PH	DRAWING NO.	REV. D
MFG. APPR.	PH	D3564	SHEET 2 OF 3
APPROVED	PH	TITLE	SCALE
DE APPR.	PH	WEARSHOE	1:8
DATE	07.08.21	COPYRIGHT © 2006 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

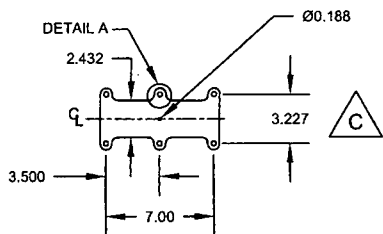
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

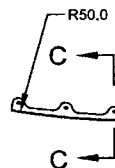
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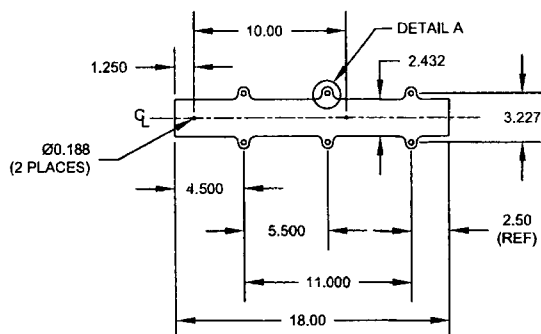
**NOTE:** Date & initial all entries



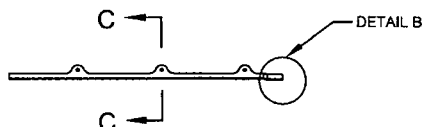
**D3564-13F FLAT PATTERN**



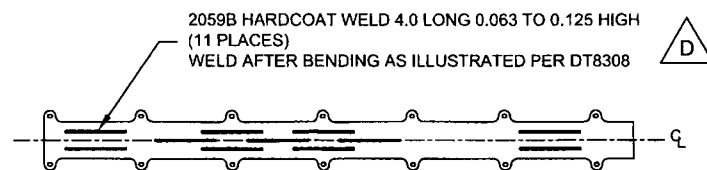
**D3564-13 BENDING DETAIL**  
(MAKE D3564-13 FROM D3564-13F)



**D3564-15F FLAT PATTERN**



**D3564-15 BENDING DETAIL**  
(MAKE D3564-15 FROM D3564-15F)

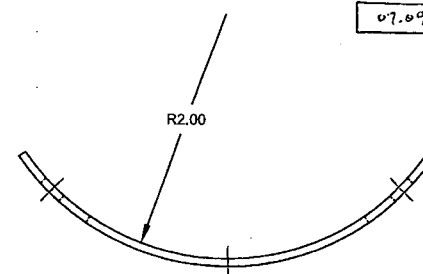


**DETAIL D**  
(D3564-1/-3/-9/-11 WELDING DETAIL)

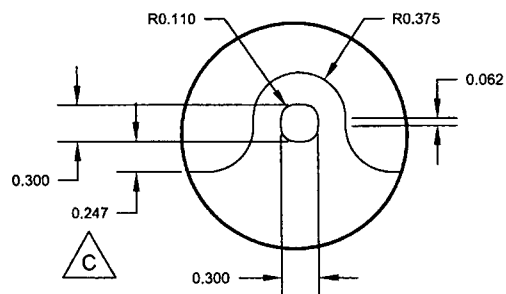
*w/o 6.7588*

**RELEASED**

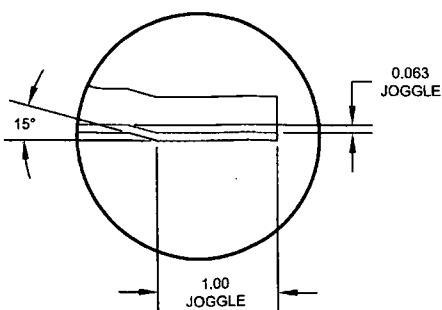
07.09.04



**SECTION C-C**  
SCALE 1:1



**DETAIL A**  
SCALE 1:1



**DETAIL B**  
SCALE 1:1

DESIGN	PH	<b>DART AEROSPACE LTD</b>	
DRAWN	CB	HAWKESBURY, ONTARIO, CANADA	
CHECKED	PH	DRAWING NO.	REV. D
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